

A process for preparing chiral carboxylic acids from nitriles using a nitrilase or microorganisms which comprise a gene for the nitrilase

5

Abstract

The invention relates to nucleic acid sequences which code for a polypeptide having nitrilase activity, to nucleic acid constructs comprising the nucleic acid sequences, and to vectors comprising the nucleic acid sequences or the nucleic acid constructs. The invention further relates to amino acid sequences which are encoded by the nucleic acid sequences, and to microorganisms comprising the nucleic acid sequences, the nucleic acid constructs or vectors comprising the nucleic acid sequences or the nucleic acid constructs.

The invention additionally relates to a process for preparing chiral carboxylic acids from the racemic nitriles.

20

25

30

35

40

45

1. Personal Information	
1. Name	_____
2. Address	_____
3. City	_____
4. State	_____
5. Zip	_____
6. Telephone	_____
7. E-mail	_____
8. Date of Birth	_____
9. Sex	_____
10. Marital Status	_____
11. Number of Children	_____
12. Education	_____
13. Occupation	_____
14. Annual Income	_____
15. Number of Years in Current Residence	_____
16. Number of Years in Current Neighborhood	_____
17. Number of Years in Current City	_____
18. Number of Years in Current State	_____
19. Number of Years in Current Country	_____
20. Number of Years in Current Continent	_____
21. Number of Years in Current Hemisphere	_____
22. Number of Years in Current Planet	_____
23. Number of Years in Current Galaxy	_____
24. Number of Years in Current Universe	_____
25. Number of Years in Current Multiverse	_____
26. Number of Years in Current Omniverse	_____
27. Number of Years in Current Metaverse	_____
28. Number of Years in Current Simulacrum	_____
29. Number of Years in Current Matrix	_____
30. Number of Years in Current Virtual Reality	_____
31. Number of Years in Current Augmented Reality	_____
32. Number of Years in Current Mixed Reality	_____
33. Number of Years in Current Extended Reality	_____
34. Number of Years in Current Virtual World	_____
35. Number of Years in Current Virtual Space	_____
36. Number of Years in Current Virtual Environment	_____
37. Number of Years in Current Virtual Landscape	_____
38. Number of Years in Current Virtual Worldview	_____
39. Number of Years in Current Virtual Reality System	_____
40. Number of Years in Current Virtual Reality Platform	_____
41. Number of Years in Current Virtual Reality Environment	_____
42. Number of Years in Current Virtual Reality World	_____
43. Number of Years in Current Virtual Reality Space	_____
44. Number of Years in Current Virtual Reality Environment	_____
45. Number of Years in Current Virtual Reality Worldview	_____
46. Number of Years in Current Virtual Reality System	_____
47. Number of Years in Current Virtual Reality Platform	_____
48. Number of Years in Current Virtual Reality Environment	_____
49. Number of Years in Current Virtual Reality World	_____
50. Number of Years in Current Virtual Reality Space	_____
51. Number of Years in Current Virtual Reality Environment	_____
52. Number of Years in Current Virtual Reality Worldview	_____
53. Number of Years in Current Virtual Reality System	_____
54. Number of Years in Current Virtual Reality Platform	_____
55. Number of Years in Current Virtual Reality Environment	_____
56. Number of Years in Current Virtual Reality World	_____
57. Number of Years in Current Virtual Reality Space	_____
58. Number of Years in Current Virtual Reality Environment	_____
59. Number of Years in Current Virtual Reality Worldview	_____
60. Number of Years in Current Virtual Reality System	_____
61. Number of Years in Current Virtual Reality Platform	_____
62. Number of Years in Current Virtual Reality Environment	_____
63. Number of Years in Current Virtual Reality World	_____
64. Number of Years in Current Virtual Reality Space	_____
65. Number of Years in Current Virtual Reality Environment	_____
66. Number of Years in Current Virtual Reality Worldview	_____
67. Number of Years in Current Virtual Reality System	_____
68. Number of Years in Current Virtual Reality Platform	_____
69. Number of Years in Current Virtual Reality Environment	_____
70. Number of Years in Current Virtual Reality World	_____
71. Number of Years in Current Virtual Reality Space	_____
72. Number of Years in Current Virtual Reality Environment	_____
73. Number of Years in Current Virtual Reality Worldview	_____
74. Number of Years in Current Virtual Reality System	_____
75. Number of Years in Current Virtual Reality Platform	_____
76. Number of Years in Current Virtual Reality Environment	_____
77. Number of Years in Current Virtual Reality World	_____
78. Number of Years in Current Virtual Reality Space	_____
79. Number of Years in Current Virtual Reality Environment	_____
80. Number of Years in Current Virtual Reality Worldview	_____
81. Number of Years in Current Virtual Reality System	_____
82. Number of Years in Current Virtual Reality Platform	_____
83. Number of Years in Current Virtual Reality Environment	_____
84. Number of Years in Current Virtual Reality World	_____
85. Number of Years in Current Virtual Reality Space	_____
86. Number of Years in Current Virtual Reality Environment	_____
87. Number of Years in Current Virtual Reality Worldview	_____
88. Number of Years in Current Virtual Reality System	_____
89. Number of Years in Current Virtual Reality Platform	_____
90. Number of Years in Current Virtual Reality Environment	_____
91. Number of Years in Current Virtual Reality World	_____
92. Number of Years in Current Virtual Reality Space	_____
93. Number of Years in Current Virtual Reality Environment	_____
94. Number of Years in Current Virtual Reality Worldview	_____
95. Number of Years in Current Virtual Reality System	_____
96. Number of Years in Current Virtual Reality Platform	_____
97. Number of Years in Current Virtual Reality Environment	_____
98. Number of Years in Current Virtual Reality World	_____
99. Number of Years in Current Virtual Reality Space	_____
100. Number of Years in Current Virtual Reality Environment	_____